



CEOP Phase II

Reference Sites

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Overview

1. Current Phase I archive status (critical review)
2. Reconsider data delivery aspects
3. Phase I sites may not participate in Phase II
4. Additional sites for Phase II
5. Additional parameters for Phase II



1. Critical Review: Number of sites with.....

Any available EOP3/4 data ready for use:

33 (of 35) sites

All available EOP3/4 data ready for use as scheduled:

9 (of 33) sites

Cabauw, Lindenberg, Himalayas, Bondville, SGP, Brasilia, Berms, NSA, TWP

Full CEOP EOP3/4 data coverage ready for use as scheduled:

3 (of 9) sites

Cabauw, Lindenberg, SGP



2. Data delivery aspects

Reduce „time to deliver“ reference site data

a) Data policy



Data exchange guidelines (I) :

- (1) To comply with WMO Resolutions 40 (CG-XII) and 25 (CG-XIII) in particular: No financial implications.
- (2) *Data users* and CDA: Commercial exploitation of CEOP data is prohibited.
- (3) *Data users*: No transfer to third parties.
- (4) **Data release to *data users*: Turn-around period.**
***Category 1* data: 6 months**
***Category 2* data: 15 months**



2. Data delivery aspects

Reduce „time to deliver“ reference site data

- a) Data policy
- b) Data quality checks and format issues
 - possible use of CAMP Data System by the reference sites
- c) **Reference sites MUST meet delivery schedule !**



3. Phase I sites may not participate in Phase II

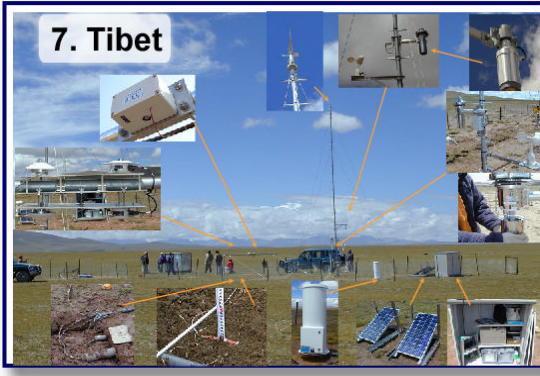
Primary reasons:

- Temporary sites terminated
- Funding discontinued
- CEOP contribution discontinued

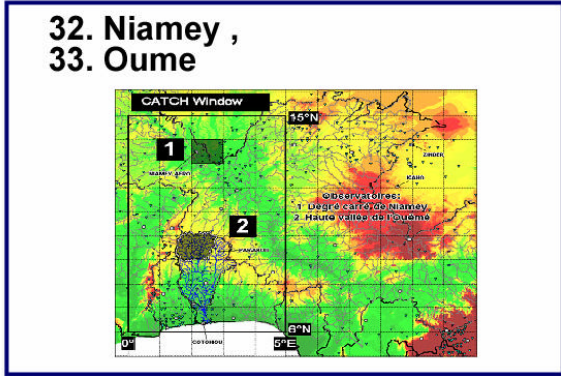
Commitments required from existing sites for participation in Phase II



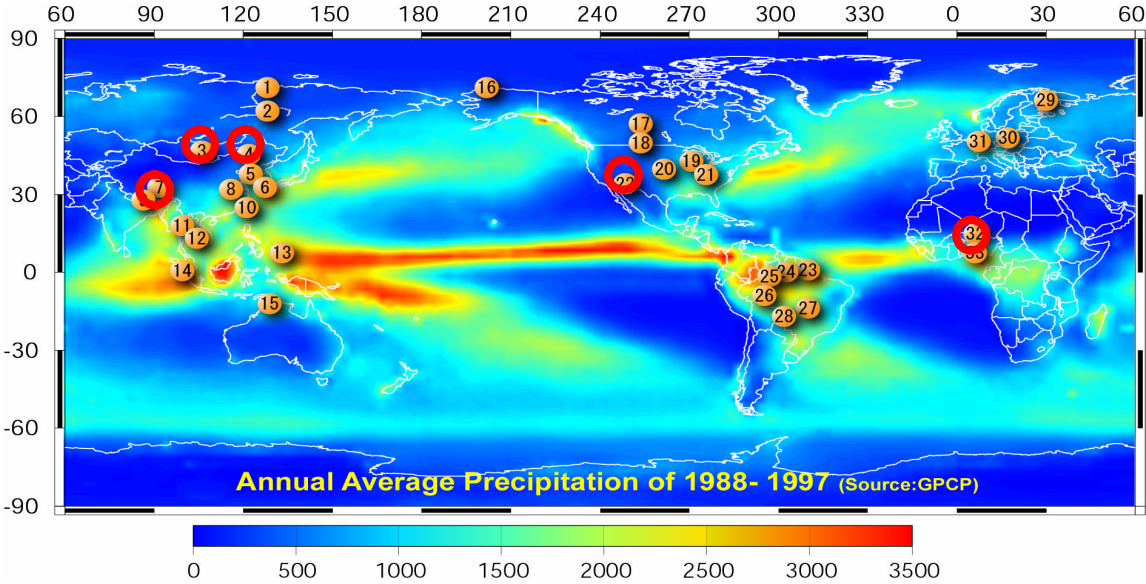
1. Current Phase I archive status (critical review)
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 - new CEOP projects

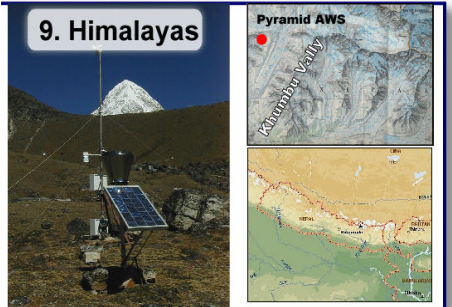
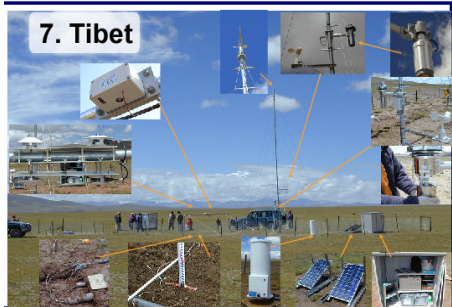
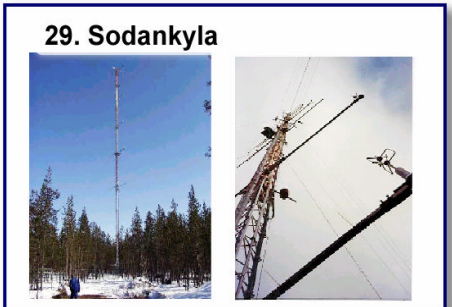
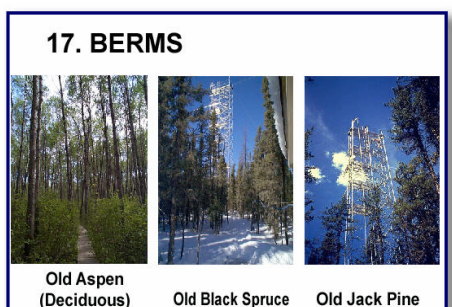
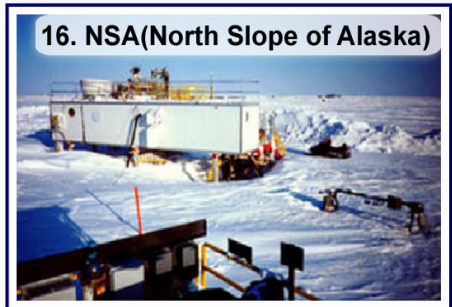


possible candidates
China, Tunisia, Mexico,



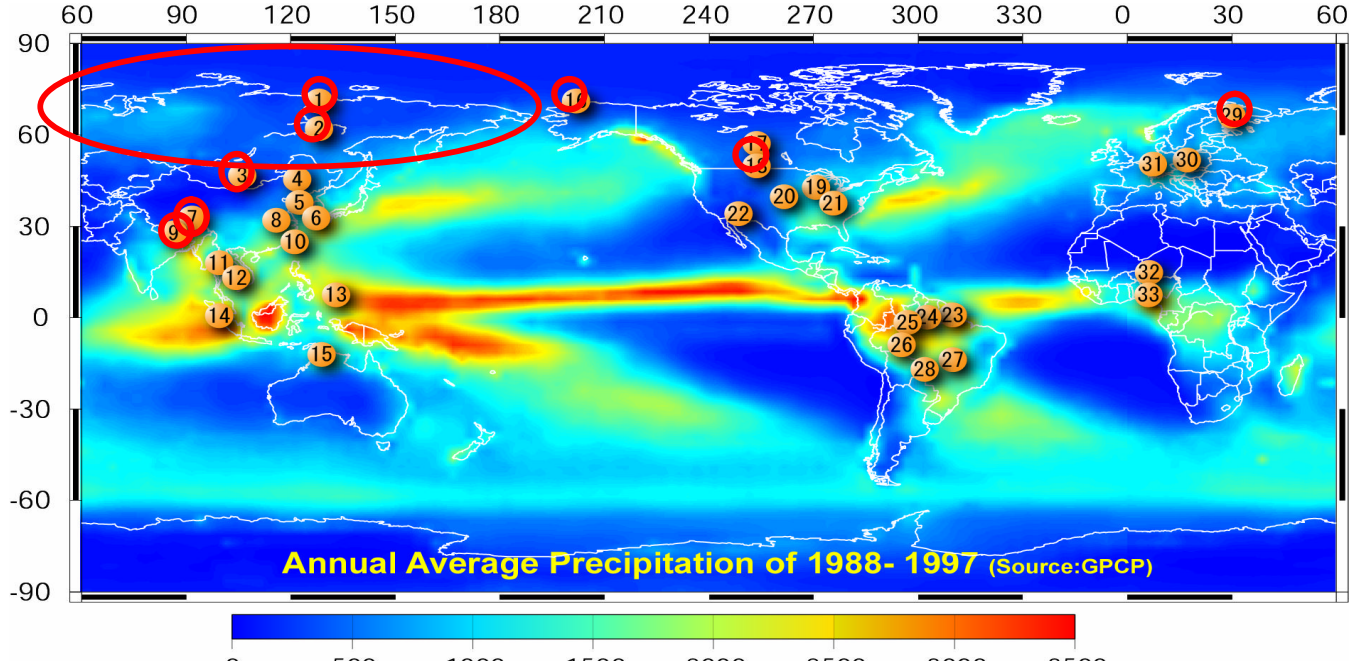
**CEOP Reference Site
 in the Semi-arid Regions**



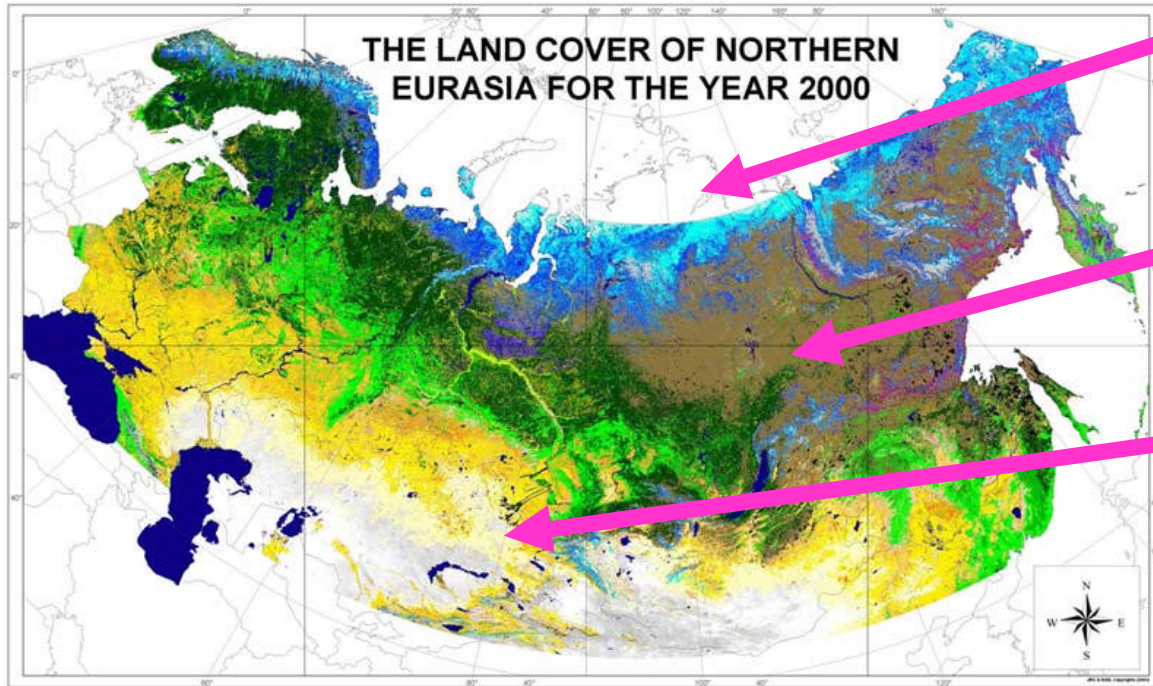


CEOP Reference Site in the **Cold Regions**

Additional candidate: NEESPI ?



NEESPI: The Northern Eurasia Earth Science Partnership Initiative



The world's largest cold region.

Area stores more than half of the Earth's terrestrial carbon.

Large vulnerable natural and agricultural ecosystems, and extensive and variable dry land areas exist in the region.

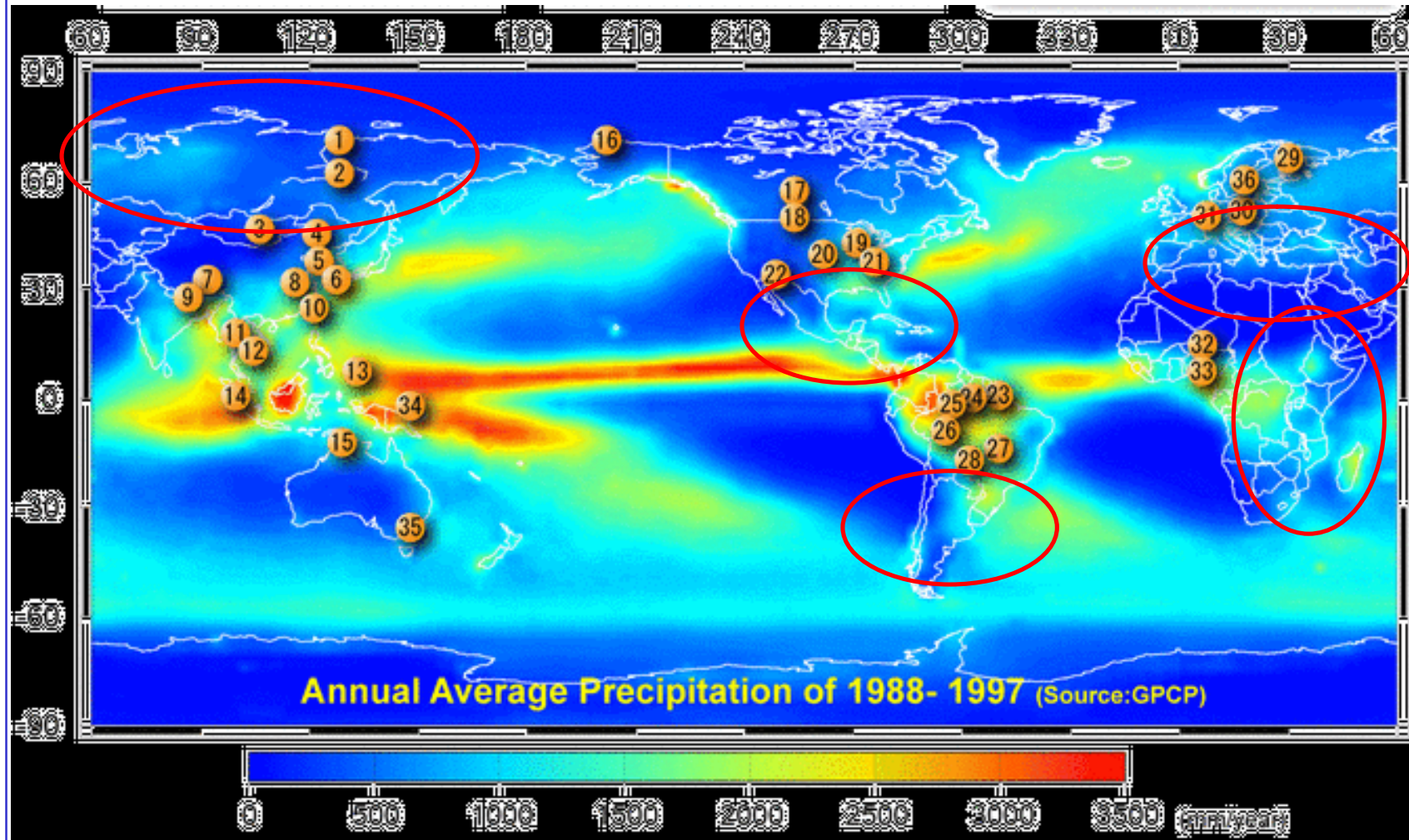
Sites are currently – or have already been - built up



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 - new CEOP projects
 - towards global coverage

Major **continental** gaps in current site coverage

The Ocean ?





New CEOP projects and towards Global coverage

1. Additional continental sites

Exploring existing CSEs:

e.g. La Plata, AMMA (enhance current observations)

Exploring existing sites within GEWEX/WCRP

e.g. BSRN, FLUXnet,...

Exploring upcoming projects and programmes beyond GEWEX:

e.g. NEESPI, CliC,.....

Exploring other consortia beyond GEWEX:

e.g. European IP/NoE consortia on climate (Mediterranean !) and Super Sites

2. Ocean Reference Sites (*e.g.* buoy,...)



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 - Aerosols
 - Watershed Hydrology (Runoff,....)
 - Others ?



Thank you !